

### AMENDMENT TO THE CLAIMS

This listing of the claims will replace all prior versions, and listings, of claims in the application:

#### Listing of the claims:

1. (Currently Amended) An event historian for batch processing comprising:  
a history executive element for receiving process event information from one or more input sources operating in physical elements of a process and batch procedure event information from a batch control device, wherein the batch control device is separate from the physical elements of the process, ~~from multiple input sources operating in different physical elements of a process~~ and for automatically deriving relationships among portions of said process event information and batch procedure event information based on generated event messages;  
a storage element coupled to said executive element for persistently storing said process event information and said batch procedure event information and said derived relationships in response to requests from said history executive element; and  
an event information retrieval element for retrieving said process event information and said batch procedure event information in accordance with said derived relationships in response to requests from an application process.

2. (Original) The event historian of claim 1 further comprising:  
  
a continuous data collection element for gathering continuous data in real time  
  
wherein said continuous data relates to at least one procedural element  
  
of a batch process.
3. (Previously Presented) The event historian of claim 2 wherein said  
  
information retrieval element further comprises:  
  
a batch historian view client application for graphically presenting to a user  
  
said batch procedure event information and said relationships and said  
  
continuous data.
4. (Previously Presented) The event historian of claim 1 wherein said  
  
information retrieval element further comprises:  
  
a batch historian view client application for graphically presenting to a user  
  
said batch procedure event information and said relationships.
5. (Original) The event historian of claim 1 further comprising:  
  
a batch event generator coupled to said history executive element as a first  
  
input source wherein said batch event generator generates events  
  
indicative of execution of procedural elements of a batch process; and  
  
a process event generator coupled to said history executive element as a  
  
second input source wherein said process event generator generates  
  
events indicative of procedural elements performed within equipment  
  
used in the control of said batch process.

6. (Original) The event historian of claim 5 further comprising:  
  
a continuous data collection element for gathering continuous data in real time  
  
wherein said continuous data relates to at least one procedural element  
  
of a batch process,  
  
wherein said process event generator comprises:  
  
an event log generated by said continuous data collection element.
7. (Original) The event historian of claim 6 wherein said history executive  
  
element includes:  
  
a history correlation element for relating said batch events and said process  
  
events and said continuous data.
8. (Currently Amended) In a batch processing system, a batch history view client  
  
application comprising:  
  
means for retrieving batch procedure event information from a batch control  
  
device and process event information from one or more ~~multiple~~  
  
sources operating separate from the batch control device in ~~different~~  
  
physical elements of a process corresponding to an identified batch;  
  
and  
  
means for visually presenting to a user said batch procedure event information  
  
and process event information and automatically deriving relationships  
  
among portions of said batch procedure event information and process  
  
event information.

9. (Previously Presented) The view client of claim 8 wherein said means for visually presenting further comprises:  
  
means for presenting said batch procedure event information and process event information and said derived relationships as a Gantt chart wherein said Gantt chart is representative of procedural elements of the batch procedure.
10. (Previously Presented) The view client of claim 9 wherein said means for presenting said batch procedure event information and process event information and said derived relationships as a Gantt chart further comprises:  
  
means for presenting said Gantt chart in an absolute time scale.
11. (Original) The view client of claim 9 wherein said means for presenting said batch procedure event information and process event information and said derived relationships as a Gantt chart further comprises:  
  
means for presenting said Gantt chart in a batch relative time scale.

12. (Previously Presented) The view client of claim 8 further comprising:  
  
means for retrieving other batch procedure event information corresponding to  
  
a second identified batch; and  
  
means for presenting to a user said other batch procedure event information  
  
and relationships among portions of said other batch procedure event  
  
information wherein said means for presenting said other batch  
  
procedure event information includes:  
  
means for indicating differences between said batch procedure event  
  
information and said other batch procedure event information.
13. (Previously Presented) The view client of claim 12 wherein said other batch  
  
procedure event information represents processing of a golden batch for  
  
comparison with other batches represented by said batch procedure event  
  
information.
14. (Previously Presented) The view client of claim 12 wherein said means for  
  
visually presenting includes means for presenting said batch procedure event  
  
information and said relationships in real time as said batch procedure event  
  
information is generated.
15. (Previously Presented) The view client of claim 14 wherein said means for  
  
presenting said batch procedure event information in real time includes means  
  
for scrolling said batch procedure event information horizontally across a user  
  
display screen.

16. (Previously Presented) The view client of claim 14 further comprising:  
continuous data collection means for gathering continuous data in real time  
wherein said continuous data relates to at least one data point of a  
batch process,  
wherein said means for presenting said batch procedure event information in  
real time includes means for presenting said continuous data in real  
time as said continuous data is gathered.
17. (Original) The view client of claim 16 wherein said means for presenting said  
continuous data in real time includes means for scrolling said continuous data  
horizontally across a user display screen.